

## 102.3 Copper Base Alloys (chip and rod forms)

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PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	Description	Unit Size (in g)	Elemental Composition (mass fraction, in %)																			
			Cu	Ni	Fe	Zn	Pb	Mn	Sb	Sn	Cr	P	Ag	Si	Al	Te	Cd	Se	Bi	O	Co	C
158a	Bronze, Silicon	150	90.93	0.001	1.23	2.08	0.097	1.11		0.96		0.026		3.03	0.46							
458	Beryllium-Copper (17510)	50	(97.9)	1.6	0.06	0.002	0.002	(<0.002)	(<0.005)	0.004	0.004		(<0.01)	0.035	0.03						0.076	Be 0.360
459	Beryllium-Copper (17200)	50	(97.7)	0.039	0.079	0.002	0.001	(<0.003)	(<0.005)	0.005	0.005		(<0.003)	0.077	0.044						0.221	Be 1.82
460	Beryllium-Copper (17300)	50	(97.5)	0.031	0.098	0.004	0.258	(<0.003)	(<0.005)	0.006	0.005		(<0.002)	0.77	0.048						0.217	Be 1.86
871	Bronze, Phosphor (CDA 521)	100	91.68		<0.001	0.025	0.01			8.14		0.082										
872	Bronze, Phosphor (CDA 544)	100	87.36		0.003	4.0	4.13			4.16		0.26										
874	Cupro-Nickel, 10% (CDA 706) "High-Purity"	100	88.49	10.18	1.22	0.002	<0.0005	0.0020	< 0.001	0.007		0.002		(0.0006)		<0.0002	0.00015	<0.0002	(0.06)			(0.0023)
875	Cupro-Nickel, 10% (CDA 706) "Doped"	100	87.83	10.42	1.45	0.11	0.0092	<0.0007	< 0.001	0.009		0.002		(0.0008)		(<0.0001)	0.0022	0.0004	0.003	(0.14)		(0.0035)
879	Nickel Silver (CDA 762)	100	57.75	12.11	0.0020	30.04	0.002	<0.001														
880	Nickel Silver (CDA 770)	100	54.51	18.13	0.004	27.3	0.002	<0.001														
1034	Unalloyed Copper	rod	(99.96)	(0.6)*	(2.0)*	(<11)*	(0.5)*	(< 0.1)*	(0.2)*	(<0.2)*	(0.3)*		(8.1)*	(<2)*	(<2)*	(0.5)*	(<1)*	(3.3)*	(0.2)*	(363)*	(0.2)*	
1035	Leaded-Tin Bronze Alloy	50	(78.5)	(0.75)	(0.001)	(0.25)	(13.5)			(6.8)		(0.004)								(0.64)		

Values in parentheses are not certified and are given for information only.

\*Value is in mg/kg.

\*\*Sulfur value is in mg/kg

Au	H	S	As	Mg	Ti
		(<0.002)	Zr (<0.002)	0.003	(<0.002)
		(<0.001)	Zr (<0.002)	0.007	(< 0.003)
		(<0.001)	Zr (<0.002)	0.005	(< 0.003)
	(0.0016)	(0.0011)	(<0.0006)	(0.0002)	(0.0001)
	(0.004)	(0.0011)	(0.0010)	(0.0010)	(<0.0002)
(<0.05)*		2.8* 22.3**	(0.2)*		(<1*)